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(71)Applicant : IDEMITSU PETROCHEM CO LTD

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(72)Inventor : KOBAYASHI YUTAKA

(54) MODIFIED SOFT POLYPROPYLENE

(57)Abstract:

PURPOSE: To provide the subject polypropylene composed of a soft PP, an unsaturated carboxylic acid (derivative) and an organic peroxide at specific ratios and having excellent adhesivity, heat-resistance, low-temperature impact strength and moldability.

CONSTITUTION: The objective PP is composed of (A) 100 pts.wt. of a soft PP [e.g. a PP polymer consisting of 10-90wt.% of a PP having an intrinsic viscosity of $\geq 1.2 \text{ dl/g}$ and soluble in boiling heptane and 90-10wt.% of a PP having an intrinsic viscosity of 0.5-9.0dl/g and insoluble in boiling heptane], (B) 0.2-15 pts.wt. (preferably 0.5-10 pts.wt.) of an unsaturated carboxylic acid (derivative) (preferably maleic anhydride) and (C) 0.01-0.5 pt.wt. (preferably 0.03-0.3 pt.wt.) of an organic peroxide (preferably having a decomposition temperature of 90-130° C, e.g. dicumyl peroxide).

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